

# The 50 MHz DX Bulletin

Volume 6, Issue 10

October 1995

ISSN 1073-1024

The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$20 U.S. third class mail, \$25 U.S./Canada/Mexico airmail, \$25 by surface and \$30 by airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4541 USA or to P O Box 762, Menlo Park, CA 94026 USA. My Internet address is frank@sneezy.sri.com. The bulletin may be freely quoted, provided that credit is given.

## There's Still Life In The Old Band!

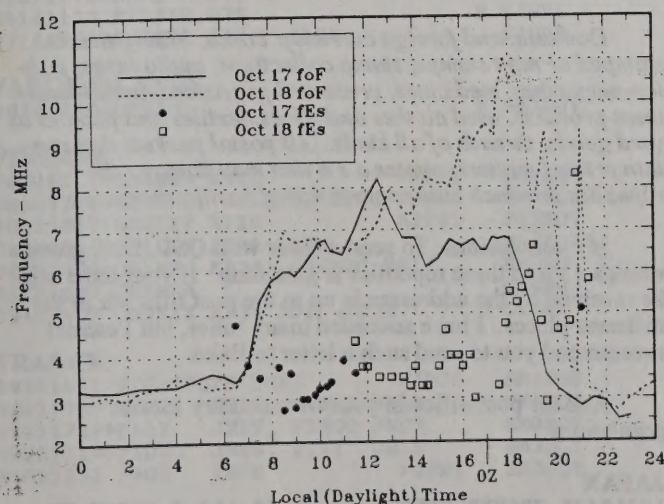
Sporadic-E in October? Aurora and F-layer propagation during the bottom of the solar cycle? As Oscar, CO2OJ, writes: "Six meters, The "Magic" Band. It really is, but ... you must be always listening!"

Oscar reported Sporadic-E on October 4, 7, 11, 14, 23, and 24. Nestor, LW5EJU, reported F2 or TE propagation on October 4, 5, 7, 8, 16, 17, 19, and 20 (the letter was post-marked the 21st). Mike, VE7SKA, reported Auroral E on October 23 and Es on October 25.

The northern tier of U.S. states and Canada had an auroral opening from late on October 18 2300Z through October 19 0430Z. NOAA describes the Solar & Geomagnetic Activity thusly: "At 1900UT {on the 18th} the solar wind changed abruptly, the density dropped from near  $50$  to  $5 \text{ cm}^{-3}$  while the magnetic field {of the solar wind} changed in magnitude from  $10 \text{ nT}$  to  $20 \text{ nT}$ , with a direction pointing almost due south ( $B_z$  about  $30 \text{ nT}$ ), in GSM coordinates. No change was observed in the solar wind speed. The field remained pointed strongly southward until the end of the day, then the field direction gradually moved northward throughout October 19." The Kp magnetic index was 5 to 6 throughout the period of the aurora.

I collected some near-vertical incidence ionospheric soundings during (local) October 17 and 18. The F-layer ordinary-ray critical frequencies and maximum frequencies of Sporadic-E are plotted in the figure below.

Ionospheric Layer Frequencies Over Central California



Local October 18 at 1700 PDT is October 19 0000 UT. The sounder location is well south of the aurora, but an enhancement of F layer and E-layer electron densities was noted late October 18 compared to the previous day.

Remember that the M(3000)F2 factor is usually on the order of 3.0 to 3.5; and that the M(2000)E factor is around 5.5-6. F-layer MUFs above 10 MHz suggest that ten meters was open, and indeed it was, with KH6, and Texas received with strong signals and closer stations received by backscatter. The Texas stations were received by 1-hop F-layer and the height of maximum ionization of that layer was abnormally low (even for this part of the sunspot cycle).

NOAA described conditions as: "Active to minor storm conditions occurred between 18-20 October. This activity can be correlated to a favorably positioned coronal hole. Furthermore, there were three sudden impulses detected. The first impulse occurred at 18/1121UT with a magnitude of  $32 \text{ nT}$ , the second was detected at 19/1823UT having a magnitude of  $8 \text{ nT}$  and the third occurred at 22/2155UT with a magnitude of  $7 \text{ nT}$ ." Kp indices were as high on October 19 and 20 as they were on October 18. There was a  $10 \text{ MeV}$  proton event on October 20.

What I want you to remember is: 1) the ionosphere varies a lot, day-to-day and even hour-to-hour, 2) Sporadic-E may occur any time, even during the off months of September and October, 3) F-layer MUFs may increase during the early phases of a magnetic storm, at least to the south of the auroral zone, and 4) Sunrise and sunset in the ionosphere may be likened to turning a switch on and off in a circuit; the transient response may be more interesting than the steady state. A nT, by the way is a nanoTesla ( $10^{-9} \text{ Webers/m}^2$ ). One Gauss is thus  $10^{-4} \text{ Tesla}$  or  $10^5 \text{ nanoTeslas}$ . These are weak magnetic fields compared to Earth's.

## Fieldhunter's List

50 MHz Standings as of September 30, 1995

by Johnny Ryden, SM5INC

Slanbarsvagen 270

S-745 60 Enköping, SWEDEN

SM5INC @ SK5BB.#AROS.U.SWE.EU

Internet jr@pts.se

Johnny Ryden writes "I've received a few applications for the Swedish Field Award {mentioned in our April 1995 bulletin} which I'm not the manager for. All applications {for that award} go to: Sveriges Sändareamatörer/SSA, Östmarksgatan 43, S-123 42 Farsta, SWEDEN.

However, I wouldn't recommend this award to 6 meter enthusiasts since the basic award is for 100 fields confirmed. So I suppose the award is more interesting for operators on the HF bands. The SSA also has a grid SQUARE locator award for confirmed grids, JO89, JO90 etc, that is for grids that cover Sweden with nearby surroundings. A brochure with all the national awards is available. Write to SSA at the address in the previous paragraph."



SM5INC is the keeper of the list which is published here and elsewhere and which is updated quarterly. Updates to this list should be sent to him at either the mail or packet address listed at the top of this article.

### 50 MHz Standings as of 30 September 1995

Rank	Call	Field	Fields	YMM	Rank	Call	Field	Fields	YMM
1	JA1VOK	QM	112	9309		K8UNV	EM	35	9508
2	NI6E/KH6	BK	88	9205	56	OH1LEU	KP	34	9506
3	PY5CC	GG	82	9503	57	OH5IY	KP	32	9408
	WA6BYA	CM	82	9503		SM0KAK	JO	32	9309
5	GJ4ICD	IN	74	9506		YO2IS	KN	32	9410
	W5OZI	EM	74	9405	60	SM7JUQ	JO	31	9506
7	SV1DH	KM	71	9408		W6YLL	CM	31	9503
8	K1TOL	FN	69	9503	62	PA0ION	JO	30	9501
	NOLL	EM	69	9408	63	PA3GML	JO	28	9507
10	SM7FJE	JO	68	9505		VK3ALM	QF	28	9508
	TI2NA	EJ	68	9503		VS6BI	OL	28	9006
12	K0US	EN	67	9405	66	ES6QB	KO	27	9507
	ON4KST	JO	67	9507	67	OZ1TZB	JO	26	9410
	VK3OT	QF	67	9311	68	SM7NNJ	JO	25	9406
15	KN5S	DM	66	9005		VE6XT	DO	25	9508
16	SM7AED	JO	65	9507	70	OZ1IEP	JO	24	9507
17	SM7BAE	JO	64	9507		VE7SKA	CN	24	9503
18	G4IGO	IO	62	9502	72	DL3YEE	JO	23	9504
19	G4UPS	IO	61	9501		KB6NAN	CM	23	9508
	KH6HH	BL	61	9505	74	DL8EBW	JO	22	9404
	PA0RDY	JO	61	9412	75	G6MXL	IO	21	9411
22	K1GPJ	FN	59	9503		KL7GLL/W4	FM	21	9509
	S53A	JN	59	9404		NL7XM	FN	21	9507
24	G0JHC	IO	58	9507		WB7QBS	CN	21	9505
	WB8YFE	EN	58	9507	79	ES5MC	KO	20	9507
26	W7HAH	DN	57	9408		OH1AJ	KP	20	9507
	WB4DBB	FM	57	9507	81	SM4POB	JP	19	9508
28	OZ3ZW	JO	56	9411	82	DL3AMA	JO	18	9503
	WA5IYX	EL	56	9508		DL5BBL	JO	18	9507
30	G3OIL	IO	55	9509	84	ON4FZ	JO	17	9409
	K0TLM	EM	55	9508	85	KD4GVW	EM	16	9505
	W0KEA	DM	55	9509	86	DL1EJA	JO	15	9507
33	WA1AYS	FN	53	9408		ES1CW	KO	15	9507
34	I5MXX	JN	52	9504		ES5RY	KO	15	9507
	PA3FYM	JO	52	9410		G4MJS	IO	15	9506
36	W1JR	FN	51	9005		SM6MPA	JO	15	9508
	ZS6WB	KG	51	9405	91	PE1OGF	JO	14	9501
38	PA2TAB	JO	49	9502		SM5NVF	JO	14	9506
39	I0CUT	JN	48	9504	93	ES5DE	KO	13	9507
	WA5QCP	DM	48	9509		K0RZ	DM	13	9501
41	K6EID	EM	47	9508	95	ES2RW	KO	12	9507
	W3IWU	FN	47	9412		ES5QA	KO	12	9507
	ZL3AAU	RE	47	9508		ES6PZ	KO	12	9507
44	G4HBA	IO	46	9502		OH2BNH	KP	12	9407
	K6FV	CM	46	9509	99	G8CDW	JO	11	9502
	PA1LCH	JO	46	9507		K06ET	DM	11	9508
47	S59F	JN	42	9501		SM5INC	JO	11	9403
48	W0JRP	EM	41	9001	102	ES0SM	KO	10	9507
49	SM3EQY	JP	40	9508		PE1MJR	JO	10	9409
50	G3UKV	IO	39	9004		SM3VEE	JP	10	9509
51	WA8LLY	CM	38	9002		SM5PPS	JO	10	9507
52	N8NQS	EN	37	9502	106	ES1II	KO	9	9507
53	OZ5IQ	JO	36	9508		ES5PC	KO	9	9507
54	G3NOH	IO	35	9002	108	SM5KUX	JO	6	9506

In the list above, the columns are: Position on list; Call-sign; The station's own field; Number of fields worked; and Date last updated.

Readers are reminded that a **grid field** is a block of 10' latitude by 20' longitude, and is the first two letters of a grid square as determined by the Maidenhead Locator System. This 50 MHz list is from one (VHF) of four sponsored by the Swedish Sending Amateurs. The others are HF (part I and II), and UHF/SHF.

#### RULES:

1. All fields must have been worked via passive reflectors.
2. All stations involved must be on the earth's surface.
3. QSL cards are not required if you are certain that the other station considers the QSO to have been completed.
4. All QSOs must have been worked from points within a circle of 1000 km radius.
5. There is no starting date for contacts to be eligible.

## August-October 1995 DX Reports

The following reports of 50 MHz and higher DX are courtesy of G4UPS, SM7AED's *Six-metre Info*, JA1VOK's columns *World VHF News* in *FIVE NINE* and *V,UHF DX Topics* in *MOBIL HAM*, VE7SKA, W5OZI, and postings on the Internet. Reports by SM3EQY, SM4POB, SM7FJE, and OZ3ZW are via *6-metre Info*. Apologies to any sources I may have inadvertently neglected.

The first entry is *mmddhhii*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 1995. A + to the right of the time indicates the observation was one of several in a time period and is probably later than the time reported. The grid square of the observing station may occur after a > symbol. A time after > indicates the opening was still in progress at this time. A \$ indicates stereo reception, t indicates tentative identification. Numbers may refer to QTF (azimuth of arrival)(VE7SKA) or distance (usually in statute miles for TV, kilometers for radio amateur reports). Symbols just before the call of the reporting station include: V=Video Carrier, I=inband video sidebands, F=FM audio, B=beacon, C=CW, S=SSB, W=worked by any mode, H=heard only.

### Reports of Africa

#### TUNISIA

10251103 3V8BB

MS

GJ4ICD

**WESTERN SAHARA:** S01MM, member of the S07URE team, is still active on 50 MHz. QSL via EA2JG. QSL info for S07URE (1995 DXpedition) is via EA4URE, P.O. Box 220, 28080 Madrid, SPAIN. Tnx 6-metre info.

### Reports of Asia

**AZERBAIJAN CIS:** SM7AED writes: "Several months ago I tried to send my QSL card, green stamps and SAE to 4K6D, Vladimir, in a normal letter. It did not reach him. Therefore I sent a new letter with the same contents to Vladimir, but this time by registered mail with reception receipt.

The letter did not arrive to Vladimir, but the reception receipt was returned to the post office in Trelleborg? signed by a post official in Azerbaijan. I sent a complaint to the Swedish post and received compensation together with the regulations for post to the CIS republics. These regulations are very detailed and tell you what you are allowed and not allowed to send. Here, I have tried to translate some of the things that are **forbidden** to import in these countries.

*Domestic and foreign currency, bonds, lottery tickets, stamped or mint stamps, stamp collections, audio tapes, fashion-magazines, medicines, preserved provisions, bread- and meat-products, used clothes and shoes, textiles and plastics as yard goods, threads of all kinds. All postal packets that contain printed matters, photos a s o that may damage the republics or which may contain text of hostile character.*

My conclusions: To send a letter with QSL, IRC, green stamps a s o to these republics is gambling. If your letter will be received by the addressee is up to the post officials in the different places. I have succeeded many times, but I cannot recommend you to send such a letter to Baku.

Ask the post office in your own country for the regulations."

#### JAPAN

10210425 JH6VXP PM53

50.110 H VK3LK TE



**KOREA,S.**

08032020	HL1WTC	51.000	F	JH0BQX	
08121025	HL2IPC	50.145	S	JR0QFA	
08141015	HL1FO	50.173	S	JA4OEY/1	
08191025	HL1LTC	50.120	S	JA7KHQ	
09281149	HL1LTC	50.110		JA1VOK	

**TAIWAN**

08022200	BV4PH	50.120	S	ALL JA	
10060720	BV2FG	-1200	> PM63	B JA5CMO	

**Reports of Europe****EUROPE GENERAL**

09010722	+EUR INBAND TV STRONG	I	G4UPS	
0910	EUR TV VID 48.25,.26,49.75	V	OX3LX	

**ALAND I**

08221711	+OH0JFB JP90, OH3XA KP20	SM3EQY		
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**AUSTRIA**

09230823	OE5XBL 559	H	G4UPS	ms
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**BALEARIC I**

09070905	EA6/DF5JJ 55/51 JM19	S	G4UPS	
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**BELGIUM**

08221739	+ON1WG JO20 <1757 >JP81	SM3EQY		
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**CROATIA**

08151930	9A7D JN95	>JP70	SM4POB	
08151954	9A7D JN95	>JO54	OZ3ZW	
09031127	9A3FT JN83		SM7AED	
09071125	9A3FT 57/57 JN83FM RENNY	S	G4UPS	
09160953	9A2TK 55 WKG G3HBR	H	G4UPS	
09161121	9A2DI 559/559 JN95IN	C	G4UPS	

**DENMARK**

09081227	OZ6VHF 569	>IO80JV	C	G4UPS
09150752	OZ1DJJ JO65	BO		SM7AED
09230801	OZ2LD 559	H	G4UPS	ms

**ENGLAND**

08311904	G4IGO IO80	SM3EQY		
09030750	G4UPS, 0802 G3CCH MS+E-SCAT	SM7AED		
09081224	G7PEB JO01	SM3EQY		

**ESTONIA:** G4UPS writes: "In a QSO with Arvo, ES1CW recently, he revealed that very shortly there is going to be an extensive relaxation in the 6m regulations in Estonia, which will allow other classes of amateurs other than Class A being given access to the band. Arvo predicts that there will be quite a large number of new stations on the band, with new grid squares involved, when the new 6m schedule is issued."

09071808	+ES0SIX 579	B	G4UPS	
09141130	ES0SIX 579	B	G4UPS	
09141136	ES5DE 339 -1155		G4UPS	

**FAROE ISLANDS**

08242030	+OY9JD	H	SM3EQY	
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**FINLAND**

08221711	+OH3KKW KP11	>JP81	SM3EQY	
08221711	+OH6KNX, OH1AYQ, KP12	>JP81	SM3EQY	
08221813	+OH2LXY KP20	>JP81	SM3EQY	
08222050	+OH1LLN KP01	AUR	SM3EQY	
08222050	+OH3MF KP20, OH6MTC KP12		SM3EQY	AU
09021047	OH5MZA		G3HBR	
09101950	OH9SIX KP36 559 -2026	B	OX3LX	

**FRANCE**

08181801	F/G8SEQ/P IN86	>JP70	SM4POB	
08221739	F1XME JN05, F1ERF JN19		SM3EQY	
08221739	+F1AY JN19, F5MOO JN07		SM3EQY	
08221739	+F1DVO JN09, F1AY JN19		SM3EQY	
09081233	F9OE IN78	>JP81	SM3EQY	

**GIBRALTAR**

09061515	ZB2VHF 559	>IO80JV	B	G4UPS
09071355	ZB2VHF 599+ -1525		B	G4UPS
09071808	+ZB2VHF 579		B	G4UPS
09101430	ZB2VHF 579 -1510	>IO80JV	B	G4UPS

**GREECE**

08152031	SV2TX KN10	>JO54	OZ3ZW	
08181550	SV2AOK KN10	>JO54	OZ3ZW	
08200849	SV4AFY KM19	>JO54	OZ3ZW	

**ITALY**

08200859	IK2SGC/7 JM99	>JO54	OZ3ZW	
08200908	IK0SMG JN61	>JO54	OZ3ZW	
08200957	IK8DYD JN71	>JO54	OZ3ZW	
09010718	I2WSG 579 JN45PB SILVIO	C	G4UPS	

**MACEDONIA**

08151853	Z32BU KN01	>JO54	OZ3ZW	
08151935	Z34XMA KN02	>JO54	OZ3ZW	

**MALTA**

08200915	9H5DV JM75	>JO54	OZ3ZW	
09161050	9H5AB JM75	>JO65	SM7FJE	
09161053	9H5AB JM75	>JO65	SM7AED	

**NORWAY**

08270400	LA7DFA JP33	>JO65	SM7FJE	ms
08312128	LA5TFA KP09 MS+E		SM3EQY	
09082055	LA5TFA & 2118 JP99	>JP81	H	SM3EQY AUE

**POLAND**

09010710	SR5SIX 579	>IO80JV	B	G4UPS
09010722	SP6CPH 59/59 JO81 ZYBI		S	G4UPS
09010743	SP4MPB 579 WKG SP6CPH		H	G4UPS
09071220	SR5SIX 559 -1300	>IO80JV	B	G4UPS
09071808	+SR5SIX 569		B	G4UPS
09081100	SR5SIX 599+		B	G4UPS
09081105	SP3JNZ 599/599 JO82KJ ANTEK		G4UPS	
09081144	SP4MPB 59/59 KO03GS MIREK		S	G4UPS
09160720	SR5SIX 599	>IO80JV	B	G4UPS
09160730	SP8NCJ 59/59 KO12	>IO80JV	B	G4UPS
09160737	SP4MPB 59/59 KO03GS MIREK		S	G4UPS

**PORTUGAL**

09061340	CT0WW 579	>IO80JV	B	G4UPS
09061515	CT0WW 599		B	G4UPS
09071108	CT1DIN 59/57 IN60IM TONY		S	G4UPS
09071116	CT1DDW		H	G4UPS
09071135	CT0WW 559 -1215	>IO80JV	B	G4UPS
09071430	CT0WW 569		B	G4UPS
09072038	+CT0WW 599		B	G4UPS
09161430	CT0WW 59+20 -1530	>JO65	B	SM7AED
09161452	CT4VV, CT1CIU	>JO65	H	SM7FJE

**RUSSIAN FEDERATION (EUROPE)**

09030930	UA STRONG INBAND TV	I	SM7AED	
09081020	UA INBAND TV STRONG	I	G4UPS	
09151300	UA TV	AUR 49.750	V	SM7AED
09160743	UA STRONG INBAND TV		I	G4UPS

**SARDINIA**

08200955	IS0QDV JM58	>JO54	OZ3ZW	
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**SCOTLAND**

08311948	GM7SJC IO87		SM3EQY	
09151600	GB3LER	AUR	B	SM7AED

**SERBIA**

08151924	4N9LA KN04	>JO54	OZ3ZW	
08151927	YU1ABA KN04	>JO54	OZ3ZW	
08152016	YU1EU KN04	>JO54	OZ3ZW	
08192201	YU1EU KN04	ES/MS	>JP70	SM4POB
09031102	YT1AU KN04			SM7AED
09031117	YU1ABA KN04			SM7AED
09072035	YT1AU 59/59 KN04CP ZIKA		S	G4UPS
09072035	+YU1EO 569		H	G4UPS
09072038	YU7FU 58/58 KN04		S	G4UPS
09160836	YU7FU 57 BRIEFLY			G4UPS
09161007	YU1NW 599/599 KN0400		C	G4UPS



09161011 YU7FU 59/59 KN04 S G4UPS  
09161025 YU1ABA 599/599 KN04 C G4UPS

## SLOVENIA

09031126 S57AC JN76 SM7AED  
09031140 S55ZRS JN76 B SM7AED  
09072038+S55ZRS 579 B G4UPS  
09160956 S55ZRS 599 >IO80JV B G4UPS

## SPAIN

08152016 EH3DUY JN12 >JO54 OZ3ZW  
09061010 EH4AV 33 CLG CQ >IO80JV H G4UPS  
09061521 EH7DUW 55/53 IM76SQ MANOLO S G4UPS  
09061554 EH7KW 57/55 IM67 JOSE S G4UPS  
09071049 EH7TL 59/59 IM76GC JUAN S G4UPS  
09071808+EH7KF 55 G4UPS  
09161410 EH1TA IN63 >JO65 SM7FJE

## SVALBARD

08242030 JW7SIX PTD NNW Es OR AUR-E B SM3EQY  
08312030 JW7SIX -2130 B SM3EQY  
09082000 JW7SIX -2100 >JP81 B SM3EQY  
09101910 JW7SIX 52/59 -1945 >JP81 B SM3EQY

## SWEDEN

08221711+SM4HEJ JO69, SM4BRD JP70 SM3EQY  
08221813+SM0FMT, SM5QA, SM5NVF JO89 SM3EQY  
08221813+SM3FTT JP80, SM0UX JO99 SM3EQY  
08221813+SM5DCX JO89, SM3BIU JP73 SM3EQY  
08221813+SM5VCK JO88, SM4POB JP70 SM3EQY  
08222116 SM3RPQ JP74 AUR >JP70 SM4POB  
09020749 SM7AED 569/559 >IO80JV C G4UPS  
09030750 SM7AED 559/449 C G4UPS  
09071808 SM6CMU 59/59 JO57XK INGO S G4UPS  
09071808+SK3SIX 599 B G4UPS  
09080750 SM7AED 559/449 C G4UPS  
09081230 SM6MPA 59/54 JO67AT HANS S G4UPS  
09081240 SK3SIX 599 <1300 >IO80JV B G4UPS  
09081558 SMOKAK, 1607 SM0FMT JO89 OZ3ZW AU  
09110750 SM7AED 579/579 C G4UPS  
09130746 SM7AED 579/579 C G4UPS  
09151534 SM0FMT JO89 AUR >JO65 SM7FJE  
09151549 SM4DHN JP60 AUR >JO65 SM7FJE  
09190746 SM7AED 559/559 C G4UPS  
09200742 SM7AED 559/449 C G4UPS  
09220800 SM7AED 599/599 & 59/59 W G4UPS  
09230748 SM7AED 559/339 C G4UPS  
09240741 SM7AED 569/559 C G4UPS  
09250750 SM7AED 599/579 C G4UPS  
09270750 SM7AED 559/449 C G4UPS  
09280750 SM7AED 579/559 C G4UPS  
09290750 SM7AED 559/449 C G4UPS

**SWITZERLAND:** From 6-metre info: The {50 MHz} authorization is given for experimentation on a temporary basis till December 31, 1995, and can be cancelled at any time by PTT. Except in the Leman Lake area and some valleys in Valais, Ticino and Graubunden, the traffic is limited to the time periods outside TV broadcast activity from Switzerland or Italy in border area. Power is limited to 100W EIRP. In the Leman Lake area, power is limited to 10W EIRP. The areas where the traffic is allowed without time restriction as above represent only approx. the south part of JN36, 46 and 56 locators. For the moment, as 50 MHz is NOT a CEPT band, Switzerland has not authorized any foreign amateur to use this band on its territory: i.e., FXXX/HB9 is of illegal use. Best 73's de Gerard F1FSH.

## Reports of North America

This month's TV reporters in North America include Danny Oglethorpe, Shreveport, LA; Mike Cherry, VE7SKA, Salt Spring Island, BC, Canada; Pat Dyer, WA5IYX; and Fernando Garcia, Guadalupe (near Monterrey), NL, Mexico.

## NORTH AMERICA GENERAL

0907 NAM TV VID 55.24,.25,.26 V OX3LX  
09111900 NAM TV VID 55.25, 61.250 V OX3LX

## EASTERN CANADA

0906 VE1PZ FN85QR 559 FOR 1 HR OX3LX AUE  
10080944 VE3ONT -0946 VIA EME H JA9BHZ  
10141500+VE3BW ? CO2OJ

## WESTERN CANADA

10190012 VE7HCE CN99 045 50.130 S VE7SKA AU  
10190013 VE7DRC DO00 045 50.125 S VE7SKA AU  
10190103 VE6XIS DO31 045 50.031 B VE7SKA AU  
10190142 VE6NA DO21 055 50.125 C VE7SKA AU  
10190306 VE7BEE DN09 045 144.200 C VE7SKA AU  
10190345 VE7ASY DN09 045 144.200 C VE7SKA AU  
10230735 VE8CK/M DP22 -0835 > CN99 VE7HCE AUE

## COSTA RICA

10162230 TI2NA S3 F2 50.0785 B LW5EJU

## CUBA

10042255 CO2OJ 51 OSCAR 50.125 S LW5EJU  
10141600-CO2OJ W3IWU

## DOMINICAN REP

10052217 HI0VHF S5 50.008 B LW5EJU  
10190000 HI0VHF S1 TE 50.008 B LW5EJU

**GREENLAND:** OX3LX will not be QRV this winter due to much traveling and work, but Bo will be back on 6m next spring and summer.

## GUATEMALA

10062330 TG 3 -0200 > EL09q1 T WA5IYX  
10070040 TG -0055 MUF TO @100.8 F WA5IYX

## GULF OF MEXICO (MM)

10052356 NIKTM/MM 59 EL67 50.110 S LW5EJU

## MEXICO

08061730 XHAO 4 CS 900 MI T GARCIA  
08081330 XHTAA 2 CS 950 MI T GARCIA  
08081330+XHAO 4 CS 900 MI T GARCIA  
08091330 XHTAA 2 CS 950 MI T GARCIA  
10052333 XE1ABA 55 DK89 JUAN 50.110 S LW5EJU  
10250336 XE2UZL DM12 QTF150 50.0275 B VE7SKA

## NICARAGUA

08032100 YN 2 QSP CH7 FOR N. T GARCIA

## PUERTO RICO

10082201 KP4EIT 59 FK68 JOSE 50.110 S LW5EJU  
10190000 KP4EIT 55 FK68 JOSE 50.110 S LW5EJU

## ST KITTS

10052243 V44K S7 50.055 B LW5EJU  
10070014 V44K S3 TE 50.055 B LW5EJU  
10190000 V44K S1 TE 50.055 B LW5EJU

## United States, W2

09171610 WGRZ 2 NY 1091 MI T OGLETHORPE  
10141500 N2WK FM03 CO2OJ  
10141535 N2NNL, WB2RRK FN22 CO2OJ  
10141635+W2EOS FM18 CO2OJ  
10192310+AA2GV FN02 <0430 >EN34 222 N0HJZ AU

## United States, W3

09171430 WMAR 2 MD 1072 MI T OGLETHORPE  
09171540 KDKA 2 PA 945 MI T OGLETHORPE  
10141500+W3EUH FM19 CO2OJ  
10141535+N3PNF FM03 CO2OJ  
10141610 N3SFR FN21 CO2OJ  
10141610+K3MQN, KA3TCC FM19 CO2OJ  
10141610+N3JLE, N3MIR FM19 CO2OJ  
10141610+N3UBG, KH2CY/3 FM19 CO2OJ  
10141635 N3OHA FN20 CO2OJ

## United States, W4

08051700 WSB 2 GA 1100 MI T GARCIA  
08082130 WCBD 2 SC 1330 MI T GARCIA  
08082130 WESH 2 FL 1178 MI T GARCIA  
08261530 WSJK\$ 2 TN 1249 MI T GARCIA



08261530+WKRN	2 TN 1069 MI	T GARCIA	10190033 KF7VA	DN36 > DN43AL 1447	KR8L/7 AU
09020100 WCB	2 SC 1330 MI	T GARCIA	10190042 W7HAH	DN26 >CN99 AU	VE7HCE
09020100+(W4)	MUF 93.7 MHZ	F GARCIA	10190115 AA7NH	CN84 045 144.200	C VE7SKA AU
09171449 WUND	2 NC 1031 MI	T OGLETHORPE	10190117 W7PUA	CN84 045 144.200	C VE7SKA AU
09211815 WPBT	2 FL 939 MI	T OGLETHORPE	10190128 AA7NH	CN84 050 50.125	C VE7SKA AU
10052237 WB4IRY	53 EL82 DAVID .125	S LW5EJU	10190132 W7HAH	DN26 045 144.203	C VE7SKA AU
10052303 WA4LOX	59 EL87 RON 50.125	S LW5EJU	10190356 W7FHI	CN96 050 144.200	C VE7SKA AU
10070040 WA4TNN	KD4AEN FM06	CO20J	10190403 WB7QBS	CN96 045 50.125	C VE7SKA AU
10070040+AB4RQ	FM15	CO20J	10250246 W7/NOZPK	DM43 QTF135 >CN88	S VE7SKA
10141520 W4/K9OYD	FM18	CO20J	10250248 K7VYL	DM43 135 >CN88	S VE7SKA
10141520+KD4UPF	FM03	CO20J	10250249 W7/WB9CQX	DM33 135 50.130	S VE7SKA
10141535+N4KWX	FM08	CO20J	10250251 AA7MF	DM33 135 50.130	S VE7SKA
10141610+KD4JXY	FM17	CO20J	10250253 K7NO	DM43 135 50.125	S VE7SKA
10141635+KC4ZRH	FM17	CO20J	10250255 N7NQS	DM43 135 50.125	S VE7SKA
10232340 KB4EBP	EM78	CO20J	10250258 KTVK	3 AZ 1223 MI	T VE7SKA
10232340 KD4DFK	EM79	CO20J	10250304 W7/WSOF	DM34 135 50.125	S VE7SKA
10232340 W4ZND	EM74 > EL83	CO20J	10251530 W7/WA6IJZ	DM44 > EM84xp	KP4XS/W4
10232340 WB4KRY	EN91	CO20J	10251539 N7DRZ	DM45 > EM84xp	KP4XS/W4
10232350 KE4TDB	EM78	CO20J	10251611 W7/WB9CQX	DM33 > EM84xp	KP4XS/W4
10240000 KC4YO	EM75	CO20J	10251730 KC7GDB	DM43 > EM84xp	KP4XS/W4
10250200 W4 GA,KY		K0GU	10251732 W7RV	DM43 > EM84xp	KP4XS/W4
10251320 W4 FL,GA	>FN20	W3IWU	10251734 K7VYL	DM43 > EM84xp	KP4XS/W4
			10251736 KB7VPX	DM43 > EM84xp	KP4XS/W4

### United States, W5

10042240 W5OZI	57 EM00	50.110	S LW5EJU
10042247 WA5UUD	59 EL49 JACK	50.125	S LW5EJU
10042253 KC5KBD	55 EM50 IRV	50.125	S LW5EJU
10042304 WA5JCI	59 EM21	50.130	S LW5EJU
10042350 KB5YUA	WA5UUD		CO20J
10052230 WA5UUD	53 EL49 JACK	50.110	S LW5EJU
10052335 KC5KBD	55 EM50 IRV	50.110	S LW5EJU
10060005 W5VAS	59 EM40 HANK	50.110	S LW5EJU
10110040 KB5YAJ	EM14		CO20J
10110040+KC5CPP	EM10, N5WKW EM15		CO20J
10110040+KY5N	WB5CHW EM12		CO20J
10110040+N5CTE	KB5ULB EM12		CO20J
10232350 K5LLL	EL29		CO20J
10232350 WB5UGT	EL29 > EL83		CO20J
10240000 AB5QS	EM45		CO20J
10240000 KB5YUA	EM44		CO20J
10240000 W5/KB7IJ	EM12		CO20J
10240000 W5EUB	EL29		CO20J
10240030 AB5TU	EM12		CO20J
10240030 KA5GIM	EM11		CO20J
10240030 KB5ULD	EM12		CO20J
10240110 KC5ADG	EM12		CO20J
10240110 WA5OMD	EM10		CO20J
10240110 WB5UWB	EL17		CO20J
10240110 WD5CWA	EL29		CO20J
10240110 WD5EWD	EM22		CO20J
10240110 WQ5Y	EM20		CO20J
10250200 W5 AR, TX			K0GU
10250214 W5 TX,NM,OK,LA	>MN		N0HJZ
10251530 W5FF	DM64 > EM84xp		KP4XS/W4
10251532 W5JME	EM15 > EM84xp		KP4XS/W4
10251537 WD5ITW	EM15 > EM84xp		KP4XS/W4
10251619 N5WKW	EM15 > EM84xp		KP4XS/W4
10251735 KC5ADG	EM12 > EM84xp		KP4XS/W4
10251740 WD5K	EM12 > EM84xp		KP4XS/W4
10251746 KB5WQC	EM12 > EM84xp		KP4XS/W4
10251748 KC5LXO	EM21 > EM84xp		KP4XS/W4
10251750 W5/N3OQT	EM04 > EM84xp		KP4XS/W4
10251751 N5HJM	EM02 > EM84xp		KP4XS/W4
10251753 N5TEQ/M	EM02 > EM84xp		KP4XS/W4

### United States, W6

10190008+W6PKW	CN88? > CN43AL 144	KR8L/7 AU
10250331 KB6IGC	33 DM15 150 > CN88	S VE7SKA
10250351 KJ6ZH	33 DM03 150 50.125	S VE7SKA
10250400 W6 CA		K0GU
10250402 N6RMJ	DM14 145 50.140	H VE7SKA
10251728 KC6UIX	DM14 > EM84xp	KP4XS/W4

### United States, W7

10182358 W7HAH	DN26 >DN43AL AU	KR8L/7
10190001 N7ZKI	CN86 QTF045 50.125	S VE7SKA AU
10190008 WM7A	CN87 045 144.205	C VE7SKA AU
10190008 WM7A	CN87 > DN43AL 144	KR8L/7 AU
10190008+K7IEY	CN87 > DN43AL 144	KR8L/7 AU
10190012 W7DMS	CN85 050 50.125	S VE7SKA AU
10190013 W7HAH	DN26 040 50.128	S VE7SKA AU
10190028 W7HAH	DN26 > DN43AL 144.21	KR8L/7 AU

### United States, W8

09171540 WDIvt	4 MI	T OGLETHORPE
09171550 WJBK	2 MI 904 MI	T OGLETHORPE
10141500+N8KNA	EM99	CO20J
10232340 KE8FD	EM89	CO20J
10232340 WA8SVV	EM79 > EL83	CO20J
10232350 AA8Q	EM79	CO20J
10232350 WT8R	EM79	CO20J

### United States, W9

08070300 WISC\$	3 WI 1346 MI	T GARCIA
10190058 K9MRI	EN70 S9 > FN03 144	WB2ELB
10232340 WB9AHM	EM96 > EL83	CO20J
10240000 N9KZY	EM68	CO20J
10250200 W9 IL		K0GU

### United States, W0

08060330 KMTV	3 NE 1109 MI	T GARCIA
08070300 KGAN	2 IA 1243 MI	T GARCIA
08070315 KTVO	3 MO 1112 MI	T GARCIA
08070330 KQTV	2 MO 1025 MI	T GARCIA
08131015 KQTV	2 MO 1025 MI	T GARCIA
10042352 N0EOQ		CO20J
10250200 W0 MO		K0GU
10251609 N0WNR	EM29 > EM84xp	KP4XS/W4

## Reports of Oceania

### AUSTRALIA-VK3

10210425 VK3LK	> PM53 50.110	H JH6VXP
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### AUSTRALIA-VK4

10140458 VK4APG	50.110	S JA5CMO
10140500 VK4 CH0SOUND	-0600Z 51.67	F JA5CMO
10140501 VK4PU	50.120	S JA5CMO
10140525 VK4KK	> PM75 50.140	S JA3JTG
10140527 VK4AR	50.150	S JA5CMO
10140527 VK4KK	50.140	S JA5CMO
10140528 VK4APG	50.110	S JA3JTG
10140531 VK4PU	50.110	S JA3JTG
10140556 VK4BKM	50.110	S JA5CMO

### AUSTRALIA-VK8

10041047 VK8AH	-1220 > PM63	JA5CMO
10041047 VK8VF	-1140 50.057	B JA5CMO TE
10041047+VK8VF	-1220	B JA5 TEP
10041216 VK8AH	53 50.110	S JA5CMO TE
10051020 VK8VF	-1130	B JA5CMO
10060720+VK8VF	-1200	B JA5CMO
10061050 VK8VF	> QM05	B JA1VOK
10071100 VK8VF	-1130	B JA5CMO
10081030 VK8VF	-1230	B JA5CMO
10081110 VK8VF	> QM05	B JA1VOK
10091020 VK8VF	-1200	B JA5CMO
10201100 VK8VF		B JA5CMO



**HAWAIIAN IS:** Note that Stuart, ZK1AA, has been away from the Cook Islands for the month of October and that is the reason for no TE reception reports of KHON-2 from him.

10230632 KHON-2 -0732 55.260 V FO5DR  
10240731 KHON-2 -0901 55.260 V FO5DR

## Reports of South America

**ARGENTINA:** Nestor, LW5EJU, writes: "We have not well conditions of propagation in 6m. in this new season in comparison with the past years. I will be in the next month (November 6 to 26) in Comodoro Rivadavia City in the province of Chubut (Patagonia Argentina) loc. FE63. Will be QAP in 50.110 MHz with a President HR2600+Transverter 80W and directional antenna 4 elements, in 10m QAP in 28.885 with a President and a dipole." Nestor listed many of the North & Central American QSOs as "F2".

08291720	LU3JAW	S2	ALBERTO	50.110	LW5EJU	tr
08291720	LU5JAU	S5	DANIEL	50.110	LW5EJU	tr
09041823	LU5JAU	S9	DANIEL	50.115	LW5EJU	tr
09091744	LU5JAU	S5	DANIEL	50.110	LW5EJU	tr
09092150	LU3AOU	S9	GF05 JOSE	50.110	LW5EJU	GW
09092200	AZ3FAF	S1-2	FUNES 300KM		LW5EJU	tr
09092226	LU3EMK	S7	GF05 HORACIO		LW5EJU	GW
09142243	LU3DL	S9	LOS TOLDOS 270KM		LW5EJU	tr
09142310	LU9EHF	S9	LINCOLN	50.016 B	LW5EJU	tr
09142315	LU3EW		CARLOS	50.110	LW5EJU	GW
09231415	LU5JAU	S7	DANIEL	50.115	LW5EJU	TE
10042239	LW5EJU	57/57	GF05 NESTOR	S	W5OZI	TE
10042242	LU9EHF	59/59	FF95 LUIS	S	W5OZI	TE
10042249	LU3EW	57/57	GF05 CARLOS	S	W5OZI	TE
10042300	LU9EHF				KD4CAN	TE
10042306	LU3DL	59/59	GF05 WAL	S	W5OZI	TE
10042345	LW5EJU				CO2OJ	
10052351	LU1DMA		> EL67		N1KTM/MM	
10060000	LU9EHF		> EL67		N1KTM/MM	
10060004	LU8EWD		> EL67		N1KTM/MM	
10060005	LU3DL		> EL67		N1KTM/MM	
10060007	LU6DLB		> EL67		N1KTM/MM	
10060011	LU1DMA		> EL67		N1KTM/MM	
10071508	LU5JAU	57	TR 50.110	S	LW5EJU	

## URUGUAY

08291720 CX7IY S2 PAISANDU 50.110 LW5EJU tr

## VENEZUELA

09212330	YV4AB	S3	-0130	50.025 B	LW5EJU	TE
09222200	YV4AB	S8	-0300	50.025 B	LW5EJU	TE
10060000	YV4AB	S3	-0015	F2 50.025 B	LW5EJU	
10060045	YV4AB	S2		TE 50.025 B	LW5EJU	
10170030	YV4AB	S1		TE 50.025 B	LW5EJU	
10190000	YV4AB	S5		TE 50.025 B	LW5EJU	
10200000	YV4AB	S5		TE 50.025 B	LW5EJU	

## DX-pedition News

Oscar Morales Jr, CO2OJ, writes that between November 22 and 27 he will be participating in an IOTA (Islands On The Air) DXpedition organized by the Cuban DX Group to Jutia Key, 4 kms away from Cuba's north coast in EL72 (a never-before used grid). He will be QRV on 6m, 2m, and possibly 1296 MHz.

His address is POB 6060, Habana, Cuba, 10600. Tel: (537)3-7387, e-mail: co2oj@Tinored.cu.

## EME News

### The VE3ONT Story

VE3ONT's 50 MHz operation was a catastrophe.

It all started Friday afternoon. The 144 MHz equipment was mounted and ready to go. Everything was set and we were ready. About 2 hours before moonrise, we lost

commercial power. A utility pole about 15 km from the site arced over, burning its top off and tripping the supply-side circuit breakers. The site has emergency power for all functions **except** turning the dish. We lost all of the 144 MHz operation Friday night/Saturday morning. If the power loss had occurred 10 minutes earlier, two of the VE3ONT crew (including me) would have been trapped in the feed cabin.

Power was finally restored mid-afternoon Saturday. We hurried to remove 144 MHz and install 50 & 1296 before dark. We barely made it. There was no time to test or debug, just hurry to catch moonrise. This is when things got bad for 50 MHz. Whenever 50 MHz keyed, it shut off the transverter for 1296! 1296 could neither transmit nor receive when 50 MHz was transmitting.

It was not possible to operate both 50 and 1296 at the same time, no matter what we did. So, 50 MHz made noise whenever we could manage and listened for the rest. We hardly heard anyone! There were plenty of signals in there, but they were terribly weak and Faraday was so fast that we seldom copied more than one or two letters. Once in a while, a signal would roar out of the noise for two-three seconds, but then it would disappear. For example, W7HAH popped up to about 6 dB out of the noise, we copied his call, then we never heard him again, not even once. Our own echoes were copyable about 80% of the time, never more than 3-5 dB out of the noise. We were getting chewed up by aurora on 1296, so I guess the aurora was degrading 50 MHz too.

We worked OH2BC, WA4NJP, W5FF, and W6JKV. That's all! We listened especially for K6QXY, but we never heard a thing, nothing at all. I took 30 minutes to drag Jimmy out, that's how bad conditions were.

So that's the story. Extremely disappointing, exhausting, and difficult. I can't wait to do it again.

Michael R. Owen, W9IP

## The XR0Y Story

Dear EME enthusiast,

Here are the main results and findings of the 6m EME experiment of the Easter Island/Salas-y-Gomez Expedition 1995.

One (1) EME QSO has been made with OH2BC on Sept. 19, 1000-1015 UTC, 50.015 MHz CW. Although this result is less spectacular than hoped for, I am very glad with this one QSO as it proved the feasibility of this (sub)project.

### Problems encountered:

1. Inter-station QRM. 1 or 2 kW HF station in same tent.
2. Power supply of 6m station caused serious main voltage drop which shut down the HF stations (not appreciated by HF ops).
3. My inexperience with EME.
4. EME windows were centered around 12 deg. elevation. This should have been 4 deg.
5. All moonset skeds were impossible due to a hill which made low angle elevation at azimuth < 315 deg. impossible.

So, I learned a lot. I hope to use this experience in a future expedition. I realize that many people spent a lot of time in vein to try and work me. Please remember this was an



experiment. I did not know the circumstances I had to face. The Internet link was less interactive than hoped for and the link was down every now and then. Therefore I was unable to keep everybody up-to-date. (I communicated with a few of you)

Thanks to Mike Staal, K6MYC, who generously loaned the 11 element beam and the KW linear. Without that hardware the number of QSO's would certainly have been zero.

Enno J. Korma, PA0ERA, P.O. Box 6687, 6503 GD Nijmegen, The Netherlands, Europe E-mail: cw@pi.net  
Grid: JO21vt Tel.: +31.80.442116 (per Oct. 10: +31.24.3442116)

## Meteor Shower News

The November issue of *Sky & Telescope* has a super article entitled, THE LEONIDS: KING OF THE METEOR SHOWERS, written by Joe Rao.

Old timers may remember the Leonids storm of 1966 when, between 1130 and 1230 UT on November 17, the meteor rate climbed from under 100/minute to 2400/minute {and back down} (Kitt Peak estimate).

Nothing that great is expected this year, but observations last year indicate that the Leonids are coming back. Most of the Leonids meteor stream is concentrated near the orbit of Comet 55P/Tempel-Tuttle which is inclined 17° to the ecliptic. The earth intersects the plane of its orbit around November 17-18. This year, when the intersection will be November 18 at 0115 UT, the comet will be 838 days behind. In 1996, on November 17 at 0720 UT, the comet will be only 473 days behind. In 1997, on November 17 at 1335 UT, it will be only 108 days behind.

Clearly 1996 and 1997 will likely be more favorable (for the Western Hemisphere especially), but even this year peak meteor rates may rival those of other showers like the Perseids or Geminids. {Trouble is, the peak rates don't last as long!}

*Sky and Telescope* also mentions the Alpha Monocerotid meteor shower, suggesting that it may have a ten-year period and was last observed on November 21, 1985. Observed rates have reached six meteors/minute, but the shower lasts less than an hour. They suggest that this peak may happen some time between 0000 and 0500 UT on November 22.

## Beacon News

**NWT, Canada:** A message from Larry Horlick, VE8HL, on October 21 indicated: "VE8BY in FP53rs on 50.047 has been taken off the air due to RFI with two cordless telephone users. Hopefully the problem will be corrected and beacon returned to service quickly."

**Hawaiian Islands:**  
Aloha Victor,

My name is Ken Hoppe and my call is KH6HH. I have been receiving the 50 MHz DX Bulletin for some time now and enjoy it very much. Please keep up the good work.

I am one of the few avid 6 meter operators located in Honolulu and am the caretaker of the KH6HH beacon. I would like to report the latest addition to the beacons in the Pacific. Located at the 2700 ft. level in BL01 of the Waianae Mountains, I now have the KH6HH beacon running 24 hours

a day at 40 watts using stacked M Squared squaloops on the frequency of 144.180. This beacon is located in W. Honolulu.

I would appreciate receiving any reports of the beacon by mail via the callbook address or e-mail at khoppe@pixi.com.

As for the KH6HI 6 meter beacon, it is on running 24hrs a day from BL01 using a turnstile and 10 watts of output power. Its exact location is Haleiwa on the North Shore of Oahu. It has a direct path to all areas except for VK although reception reports from Australia are common. Plans are to increase power back to the 60 watt level when a more permanent site can be found.

Bert, KH6HI turned over the beacon to me some three years ago when he had to relocate it from its former location high atop the Waianae mountain range overlooking Honolulu. He has been off the air on all bands ever since due to plans to move from his present house. He promises to get back on the air again once he builds his new house. KH6HI/B is on 50.065 at the moment.

As far as why the KH6HH 2 meter beacon and the KH6HME 2 meter beacon are out of band, I cannot speak for Paul KH6HME, but by having his beacon on 144.17 as it has been for many years, it doesn't make any sense to have the KH6HH beacon much further away as those who routinely look for tropo to Hawaii look in the vicinity of 144.17 to 144.220. By having it close to his frequency, the chances are much better of it being heard. Also, Pacific stations are listening for it as the 144.18 frequency is relatively clear. Anything above 144.200 is practically useless for many areas.

As for whether it has a clear shot towards the West Coast, the answer is presently no. A communications tower is in the way. We shortly hope to relocate to this tower which would give us an unobstructed view in all directions.

I might add that tropo to Honolulu does not occur very often. The highest elevation on Oahu is roughly 4000ft. which is below the duct. Tropo this year was reported from sea level to the 8000ft. level on the Big Island, Maui reported the duct at the 6000ft. level only and Oahu had weak signals that scattered from the duct at the 600ft. level. During the openings, we continuously tried to get into the duct from sea level to 4000ft. with no luck. Only on the last day did signals extend to Oahu for several hours.

**Texas:** The AA5ZD beacon is located in S.W. Dallas, TX at 701 South Hampton Rd. The equipment is wedged on a shelf between old dining chairs in a back room at my father's furniture store. The room leaks during the lowest of humidity and has six inches of standing water typically during the spring-time.

The transmitter is a 200-milliwatt Kanga unit. It was built by Michael Hopkins/AB5L. A two-Watt outboard amplifier was also constructed by Mike, but spurs have forced me to operate "QRP."

Keying is accomplished by a rather 'low-tech' method. An MFJ "Grandmaster" is connected to the Kanga. The MFJ has two memories. One is a normal message and the other is a message that I change frequently. It is a humorous quote, like 'Was Engola Gay or Straight? DE AA5ZD/B' and 'A.M. Rules, S.S.B. Drools' and 'Eat my TVT'. I remotely switch between messages (A) and (B) with a telephone interface unit. The funny messages are turned on during contests and on weekends.



The entire system is enclosed in a wooden breadbox with a picture of the infamous Mexican harlot/singer, Gloria Treui. Her likeness wards off the harmonic gremlins. A burglar alarm-type power supply/charger with battery keeps the beacon going during power failures.

The antenna is the driven element of a Cushcraft Yagi. It is vertically-polarized and up about 25 feet.

The beast has been on almost continuously since February 10, 1995. It shut down due to the recent heat wave, but a quick phone call re-booted it with no problems. The only other downtime came when AB5L took it to the North Texas QRP club meeting for a Show-n-Tell/Photo-Op. Kevin Reeves, AA5ZD, 2325 Waddy Ave., Dallas, TX 75208

## Letters

Dear Victor from Richard Kennedy, WA5QCP

Thank you for an interesting bulletin. I've always heard that the sunspot minimum can be defined in two ways: by the smoothed number of spots, or when the number of new-cycle spots equals the number of old-cycle spots (smoothed).

Regarding the lead story in Vol. 6, Issue 9: a magnetic field of 250 Gauss is about that of a medium strength magnet. The magnets surrounding many microwave tubes such as magnetrons have fields of several thousand Gauss, about ten times the 250 Gauss figure.

Just yesterday (October 10), after receiving my Solar Indices Bulletin, I tried matching the cycle 22 decline with the declines of cycles 18 and 21. Again, it looks like the cycle 23 beginning is about a year away, from June through December, 1996.

Thanks for the XE listing. Wish we had some locals, but there is a TV channel 2 in Juarez.

Richard L. Kennedy, 5633 Hemmingway Dr., El Paso, TX 79924-2422.

## QSL Info

OH0/OH1NSJ: to OH1NSJ, Pasi Alanko, Näsiantie 20 as 2, 28660 Pori, FINLAND.

G3SDL/OZ3SDL new address: Dave Court, Soevej 7, 2880 Bagsvaerd, DENMARK.

SP2NJE: Dziebkonski, ul. Artylerzystow 6m.69, PL-85-190 Bydgoszcz, POLAND.

SP8NCJ: A. Tarkowski, ul. Mikolaja Kopernika 5 m 5, PL-21-500 Biala, Podlaska, POLAND.

SP5XMU: Tom Babut, PO Box 913, 00-950 Warsaw 1, POLAND.

YO7VJ new address: Dietmar Arnulf Schmidt-Bold, Strada Brazda-Rocada, Bloc 16, Scara 1, Apartment 1, Parter, R-1100 Craiova 7, Judetul Dolj, ROMANIA.

ES2RJ3: Thomas Kull, POB 4, Viimsi, Harju EE-3006, ESTONIA.

UR: Ukraine QSL bureau correction: Box 36, U.R.A.L., Kiev 1, 252001-Kiev, UKRAINE.

LZ1UK new address: Savi Dimitrov, 3700 Vidin, "Tzar Simeon Veliki" Str No 122, BULGARIA.

Z34XMA: Miki, Via Box 14, 91000 Skopje, MACEDONIA.

9A2EY: Zeljko Ulip, Dobri dol 39, 41000 Zagreb, CROATIA.

9A6W: (ex 9A2WM), Dragan Mojsilovic, HR 21000 Split, Slavenska 17, CROATIA.

SV1DH: new address: Dr. Costas Fimerelis, 41 Aristofanes Str, Halandri 152-32 GREECE.

IK2AEQ: Mr. Luca S. Vanni, Via Ustica 18, I-20022 Castano Primo, ITALY.

LU7DZ: new address: Eduardo van Ooteghem, Aconcagua 125, V.G.B. 5194, Cordoba, ARGENTINA.

VY2KX: via VE7XF, Ralph Parker, 2880 West 32nd Ave., Vancouver, V6L 2B6, BC, CANADA.

K8EFS: From W8ERD on the W8 QSL bureau: "Please pass the word around that K8EFS does not QSL via the bureau. He gets cards for CN8NS, CN8ST, DL3ZM/YV5, V51E, V51KC, YV4DSB, YV5ZZ, ZS3E, 7P8DX, 9K2USA and 9K2ZR. He gets more cards than any other "8E", but does not use the bureau, all cards have to be returned."

Your editor wonders: could this situation be alleviated by some of us sending in SASEs (with K8EFS's address and plenty of extra postage) to the W8 QSL Bureau? The W6 Bureau expects 5.5" X 7.5" envelopes; I don't know what the W8 bureau expects.

On the other hand, maybe it's a monetary thing. I heard one DX station advising that if you want a card, it's not one, but two green stamps that are required!

## More Scientists On 50 MHz

I note from the July-August 1995 issue of *Radio Science* that the six meter band is popular for Mesosphere-Stratosphere-Troposphere (MST) radars which may also go by the name of wind profilers. One of these is located at Platteville, CO. It's exact frequency wasn't given.

NOAA and the University of Colorado also have a Trans Pacific Profiler Network which so far includes: Piura, Peru; Christmas Is., Kirabati; Pohnpei, FSM; and Biak, Indonesia.

Many of these sounders operate at MegaWatt peak powers and MegaHertz bandwidths. Fortunately they also use very directive antennas, most pointed near the zenith.

What? You were hoping to work some of these places on six meters during the peak of the next solar cycle?

Other 6-meter radars discussed in that issue of *Radio Science* included one at Gadanki, India 13.47° N 79.18° E on 53 MHz, one at Chung Li, Taiwan 25° N 121° E on 52 MHz, and one at Buckland Park, 40 km N of Adelaide, Australia on 54.1 MHz.

Other MST radars (not necessarily on 50 MHz) include Poker Flat, AK (1979-1985); the SOUSY radar in Lindau, Germany; the MU radar in Shigaraki, Japan; the VHF radar of EISCAT at Tromsø, Norway; and one in Wales, U.K.